

12-06-02

2811



Express Mail No.: EL 451 599 023 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Alexander Tzlenchuk, et al.

Serial No.: 10/025,818

Confirmation No. 3678

Filed: December 18, 2001

Art Unit: 2811

For: *FINGER SQUID QUBIT DEVICE*

Examiner: To be assigned

Attorney Docket No.: 11090-048-999

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TECHNOLOGICAL CENTER 2800

TRANSMITTAL OF POWER OF ATTORNEY BY ASSIGNEE

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Applicants enclose herewith a Power of Attorney by Assignee and Exclusion of Inventors Under 37 C.F.R. 3.71 with Statement Under C.F.R. 3.73(b) executed by Geordie Rose, President and CEO, D-Wave Systems, Inc. on November 5, 2002.

Applicants believe that no fee is required with submission of the enclosed Power of Attorney by Assignee and Exclusion of Inventors Under 37 C.F.R. 3.71 with Statement Under C.F.R. 3.73(b). However, if it is found that a fee is necessary, please charge the required fee to Pennie & Edmonds Deposit Account No. 16-1150. A copy of this sheet is provided.

Respectfully submitted,

Date December 4, 2002

Richard G.A. Bone
Limited Recognition Under 37 C.F.R. § 10.9(b)
(Copy of Certificate Enclosed)
for Gary S. Williams (Reg. No.) 31,066
PENNIE & EDMONDS LLP
1155 Avenue of the Americas
New York, New York 10036-2711
(212) 790-9090

Enclosures

DEC 04 2002

**BEFORE THE OFFICE OF ENROLLMENT AND DISCIPLINE
UNITED STATE PATENT AND TRADEMARK OFFICE**

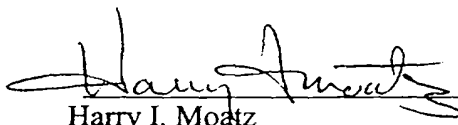
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Dr. Richard G. A. Bone is hereby given limited recognition under 37 CFR §10.9(b) as an employee of Pennie & Edmonds, LLP to prepare and prosecute patent applications wherein the patent applicant is the client of Pennie & Edmonds, LLP, and the attorney or agent of record in the applications is a registered practitioner who is a member of Pennie & Edmonds, LLP. This limited recognition shall expire on the date appearing below, or when whichever of the following events first occurs prior to the date appearing below: (i) Dr. Richard G. A. Bone ceases to lawfully reside in the United States, (ii) Dr. Richard G. A. Bone's employment with Pennie & Edmonds, LLP ceases or is terminated, or (iii) Dr. Richard G. A. Bone ceases to remain or reside in the United States on an H-1B visa.

This document constitutes proof of such recognition. The original of this document is on file in the Office of Enrollment and Discipline of the U.S. Patent and Trademark Office.

Expires: April 3, 2003



Harry I. Moatz
Director of Enrollment and Discipline



POWER OF ATTORNEY

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Tzalenchuk *et al.*

Application No.: 10/025,818

Group Art Unit: 2811

Filed: December 18, 2001

Examiner: Not Assigned

For: FINGER SQUID QUBIT DEVICE

Attorney Docket No.: 11090-048-999

Confirmation No.: 3678

RECEIVED
DEC - 9 2002
TECHNICAL CLERK (S)

**POWER OF ATTORNEY BY ASSIGNEE
AND EXCLUSION OF INVENTOR(S) UNDER 37 C.F.R. 3.71
WITH STATEMENT UNDER C.F.R. 3.73 (b)**

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The undersigned assignee of the entire interest in the above-identified subject application hereby appoints: Berj A. Terzian (Reg. No. 20060), David Weild, III (Reg. No. 21094), Barry D. Rein (Reg. No. 22411), Charles E. McKenney (Reg. No. 22795), Philip T. Shannon (Reg. No. 24278), Francis E. Morris (Reg. No. 24615), Charles E. Miller (Reg. No. 24576), Gidon D. Stern (Reg. No. 27469), John J. Lauter, Jr. (Reg. No. 27814), Brian M. Poissant (Reg. No. 28462), Rory J. Radding (Reg. No. 28749), Stephen J. Harbulak (Reg. No. 29166), Donald J. Goodell (Reg. No. 19766), Thomas E. Friebe (Reg. No. 29258), Laura A. Coruzzi (Reg. No. 30742), Geraldine F. Baldwin (Reg. No. 31232), Victor N. Balancia (Reg. No. 31231), Samuel B. Abrams (Reg. No. 30605), Steven I. Wallach (Reg. No. 35402), Adriane M. Antler (Reg. No. 32605), Thomas G. Rowan (Reg. No. 34419), James G. Markey (Reg. No. 31636), Thomas D. Kohler (Reg. No. 32797), Scott D. Stimpson (Reg. No. 33607), Gary S. Williams (Reg. No. 31066), Ann L. Gisolfi (Reg. No. 31956), Kelly D. Talcott (Reg. No. 39582), Francis D. Cerrito (Reg. No. 38100), Anthony M. Insogna (Reg. No. 35203), Brian M. Rothery (Reg. No. 35340), Brian D. Siff (Reg. No. 35679), Michael J. Lyons (Reg. No. 37386), Nikolaos C. George (Reg. No. 39201), Stephen S. Rabinowitz (Reg. No. 40286), Ognjan V. Shentov (Reg. No. 38051), Kenneth L. Stein (Reg. No. 38704), Nanda K. Alapati (Reg. No. 39,893), Andrew J. Gray (Reg. No. 41,796), Henry C. Lebowitz (Reg. No. 36,196) and Karen G. Horowitz (Reg. No. 35,199), all of Pennie & Edmonds LLP, whose addresses are 1155 Avenue of the Americas, New York, New York 10036, 1667 K Street N.W., Washington, DC 20006 and 3300 Hillview Avenue, Palo Alto, CA 94304, all of Pennie & Edmonds LLP (PTO Customer No.), as its attorneys to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith, said appointment to be to the exclusion of the inventors and their attorney(s) in accordance with the provisions of 37 C.F.R. 3.71, provided that, if any one of these attorneys ceases being affiliated with the law firm of Pennie & Edmonds LLP as partner, counsel, or employee, then the appointment of that attorney and all powers derived therefrom shall terminate on the date such attorney ceases being so affiliated.

Please direct all correspondence for this application to customer no. 24341.

I am the:

- ☐ Applicant/Inventor
☒ Assignee of record of the entire interest. See 37 CFR 3.71.
(Statement under 37 CFR 3.73(b) is applicable)

Statement Under 37 C.F.R. 3.73(b)

* states that it is:

- ☒ the assignee of the entire right, title, and interest; or
☐ an assignee of less than the entire right, title and interest.
The extent (by, percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

- ☒ An assignment from the inventor(s) of the patent application/patent identified above.
The assignment was recorded in the United States Patent and Trademark Office on
April 29, 2002 at Reel 012873, Frame 0014, or for which a copy thereof is attached.

OR

- ☐ A chain of title from the inventor(s), of the patent application/patent identified above,
to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office on
at Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office on
at Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office on
at Reel _____, Frame _____, or for which a copy thereof is attached.

- ☐ Additional documents in the chain of title are listed on a supplemental sheet.
☐ Copies of assignments of other documents in the chain of title are attached.
[Note: A separate copy (i.e., the original assignment document or a true copy of the
original document) must be submitted to Assignment Division in accordance with 37
CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See
MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Date:

Nov 5th / 2002

ASSIGNEE: D-Wave Systems, Inc.

Signature: _____

Typed Name: Georgia Rose

Position/Title: President & CEO

Address: 320-1985 West Broadway, Vancouver,
British Columbia V6J 4Y3 Canada

Executed this _____ day of _____, 2002.

Zdravko Ivanov

WITNESSED:

Signature

Date

Type or print name of witness

Executed this 18 day of April, 2002.

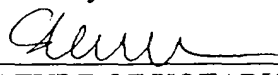


Jeremy P. Hilton

State of _____)
County of _____) ss.

On _____ before me, _____
personally appeared _____ personally
known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose
name(s) is(are) subscribed to the within instrument and acknowledged to me that he/she/they
executed the same in his/her/their authorized capacity(ies), and that by his/her/their
signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s)
acted, executed the instrument.

WITNESS my hand and official seal.



SIGNATURE OF NOTARY
WITNESS

SARAH LEVINE
APRIL 18, 2002

ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, we

Tzalenchuk, Alexander	of	Göteborg, Sweden
Ivanov, Zdravko	of	Gothenburg, Sweden
Hilton, Jeremy P.	of	Vancouver, B.C., Canada

hereby sell, assign and transfer to D-Wave Systems, Inc., a Canadian corporation, having a place of business at 1985 West Broadway, Suite 320, Vancouver, B.C. V6J 4Y3, Canada, its successors and assigns, the entire right, title and interest throughout the world in our invention in

Finger Squid Qubit Device

for which we filed a United States Patent Application on December 18, 2001, which now has Serial No. 10/025,818, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us; we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, their successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and we request that the United States Patent and Trademark Office issue all patents granted for said invention to the above-named assignee, its successors and assigns.

Executed this _____ day of _____, 2002.

Alexander Tzalenchuk

WITNESSED:

Signature

Date

Type or print name of witness

Attorney Docket No.: M-12305-1D US

ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, we

Tzalenchuk, Alexander	of	Göteborg, Sweden
Ivanov, Zdravko	of	Gothenburg, Sweden
Hilton, Jeremy P.	of	Vancouver, B.C., Canada

hereby sell, assign and transfer to D-Wave Systems, Inc., a Canadian corporation, having a place of business at 1985 West Broadway, Suite 320, Vancouver, B.C. V6J 4Y3, Canada, its successors and assigns, the entire right, title and interest throughout the world in our invention in

Finger Squid Qubit Device

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Executed this _____ day of _____, 2002.

Alexander Tzalenchuk

WITNESSED:

Signature

Date

Type or print name of witness

Executed this _____ day of _____, 2002.

Zdravko Ivanov

WITNESSED:

Signature

Date

Type or print name of witness

Executed this _____ day of _____, 2002.

Jeremy P. Hilton

State of _____)
County of _____) ss.

On _____ before me, _____
personally appeared _____ personally
known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose
name(s) is(are) subscribed to the within instrument and acknowledged to me that he/she/they
executed the same in his/her/their authorized capacity(ies), and that by his/her/their
signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s)
acted, executed the instrument.

WITNESS my hand and official seal.

SIGNATURE OF NOTARY

ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, we

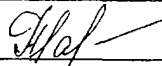
Tzalenchuk, Alexander	of	Göteborg, Sweden
Ivanov, Zdravko	of	Göteborg, Sweden
Hilton, Jeremy P.	of	Vancouver, B.C., Canada

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Finger Squid Qubit Device

for which we filed a United States Patent Application on December 18, 2001, which now has Serial No. 10/025,818, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us; we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, their successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and we request that the United States Patent and Trademark Office issue all patents granted for said invention to the above-named assignee, its successors and assigns.

Executed this 16 day of April, 2002.



Alexander Tzalenchuk

WITNESSED:

Signature

Date

Type or print name of witness

Attorney Docket No.: M-12305 US

Executed this 16 day of April, 2002.ZIVKOV
Zdravko Ivanov

WITNESSED:

Signature

Anayesu Brindin

Date

16th April, 2002

Type or print name of witness

ANAYESU BRINDIN

Executed this _____ day of _____, 2002.

Jeremy P. Hilton

State of _____)

) ss.

County of _____)

On _____ before me, _____

personally appeared _____ personally
 known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose
 name(s) is(are) subscribed to the within instrument and acknowledged to me that he/she/they
 executed the same in his/her/their authorized capacity(ies), and that by his/her/their
 signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s)
 acted, executed the instrument.

WITNESS my hand and official seal.

SIGNATURE OF NOTARY